





Kirtland Air Force Base Citizen's Advisory Board (CAB)

Cesar Chavez Community Center 7505 Kathryn Avenue SE Albuquerque, New Mexico 87108

> March 13, 2012 6:00 – 8:00 p.m.



Agenda



- Introductory Remarks
 - Mr. Wayne Bitner, Kirtland Air Force Base
 - Dr. Bruce Thomson, UNM Environmental Civil Engineering
 - Scott Sudweeks, CDC/ATSDR
- Department of Defense Presentation Bulk Fuels Facility Update (Site SS-111)
 - Colonel Don Conley, Commander, 377th Mission Support Group
- Questions
- Closing Comments



Bruce Thomson Relevant Experience & Info



- Southeast Heights resident for 26 years
- UNM Prof. of Civil Engineering & Director of Water Resources Program
- Member & Chair (3 terms) ABQ/Bernco/ABCWUA Water Quality Protection Advisory Board 1998 – 2010
- District 5 Director Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA)
- Contact Information:

bthomson@unm.edu 505-277-4729



CDC - ATSDR



- Center for Disease Control (CDC)
 Agency for Toxic Substances & Disease (ATSDR)
- CDC/ATSDR

 4770 Buford Hwy, NE MS F-59
 Atlanta, GA 30341
- Contact Information:

Scott Sudweeks
ssudweeks@cdc.gov
(770) 488-1342

Mark Evans
mevans@cdc.gov
(770) 488-0770



ATSDR Activities



www.atsdr.cdc.gov

ATSDR Activities:

- Release draft report of evaluation/recommendations for public comment later this year
- Hold public meeting to present findings answer questions
- Release final document including public input
- Attend regular community meetings to address questions and provide information



Acronyms



- BTEX Benzene, toluene, ethylbenzene, xylene
- COC Contaminant of Concern
- CAB Citizen's Advisory Board
- EDB Ethyene dibromide
- FFOR Former Fuel Offloading Rack
- ICE Internal combustion engine
- DPT Direct Push Technology
- IM Interim Measure
- LNAPL Light Non-Aqueous Phase Liquid
- PBC Performance Based Contract
- ROI Radius of influence
- SMWU Solid Waste Management Unit
- SVE Soil vapor extraction



Bulk Fuels Facility Overview



Colonel Donald Conley

377 Mission Support Group



Bulk Fuels Facility Overview



- Contract update
- EDB plume characterization update
- Phase II Interim Measure SVE Treatment System
- Path Forward
- ATSDR Health Risk Assessment



Process Overview



CHARACTERIZATION

EVALUATION

RCRA Facility Investigation

- **✓** Installation of 78 Groundwater Wells
- ✓ Installation of 35 Soil Vapor Wells
- **✓ DPT Soil Samples at FFOR**
- **✓** Installation of 9 Pneulog Wells

Corrective Measures Evaluations

- Baildown Testing
- ROI Testing
- Quarterly Monitoring
- Pneulog Well Testing
- Slug Testing

Interim Measures

- ICE Unit Operation Pre-Remedy O&M
- LNAPL Containment
- · Soil Removal at FFOR Phase I Interim Measures
- SVE Treatment System Phase II Interim Measures

FINAL REMEDY REMEDY IN PLACE

EARLY/INITIAL TREATMENT



PBC Update



Overall Project Performance Objective: Achieve Remedy In Place (RIP) for SMWU's ST-106 and SS-111

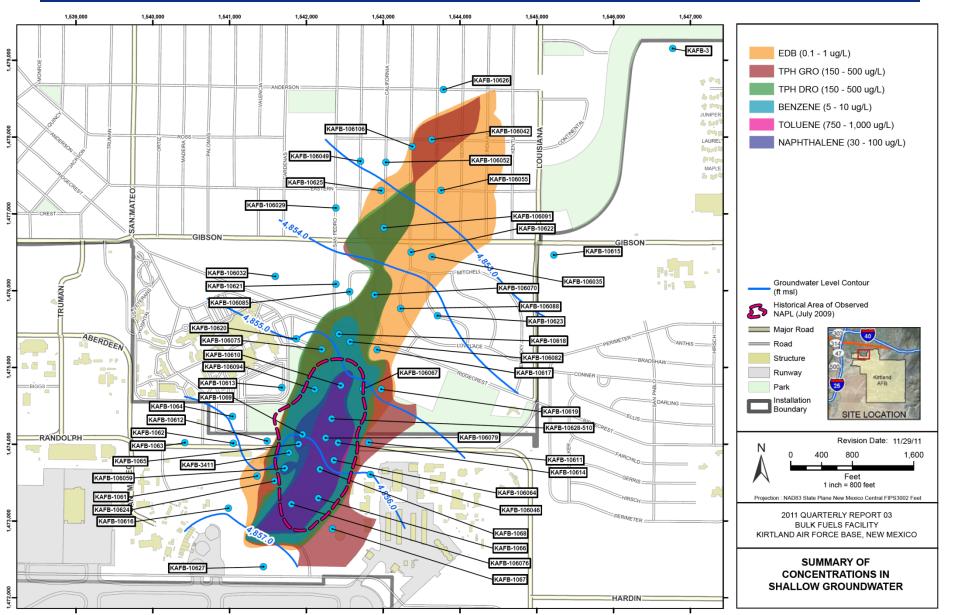
Interim Performance Milestone	Status
Investigation of Groundwater	78 Well installation complete – 30 August 2011
Investigation of Vadose Zone	35 Well installation complete – 29 July 2011
Vadose Zone Phase I Interim Measure	30 June 2012
LNAPL Containment	Well installation completed – 16 December 2011
Phase II Interim Measures	Fall/Winter 2012
Corrective Measures Evaluation	September 2014

- Completed installation of 78 groundwater monitoring wells (shallow, intermediate, and deep)
 - Approved Groundwater Investigation Work Plan (March 2011)
- Results of Third Quarter 2011 groundwater monitoring provides most complete picture to date of COC plume extents
- Biodegradation apparent for BTEX compounds
- Data Gap exists in downgradient EDB plume characterization



Shallow Wells July-September 2011

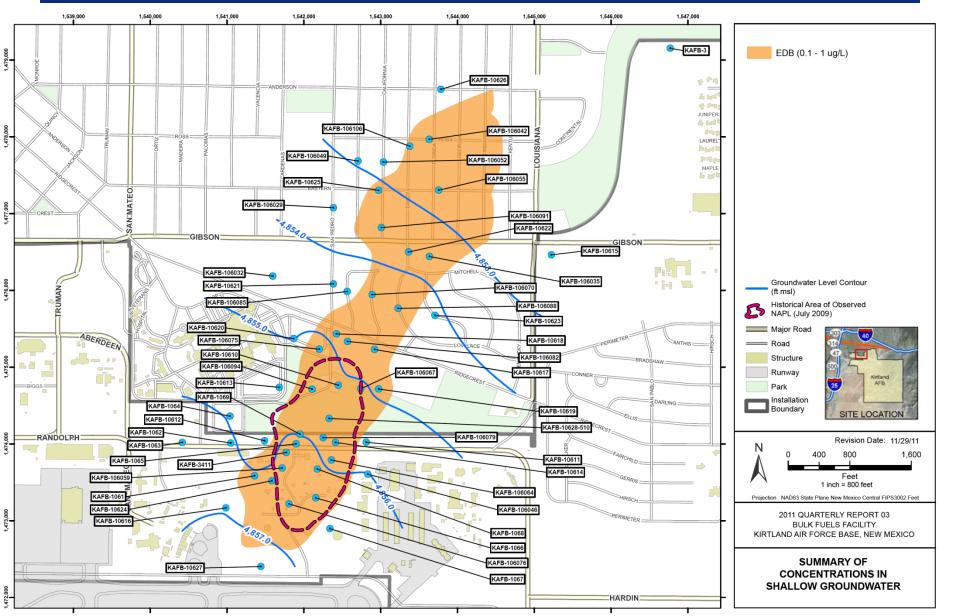






Shallow Wells July-September 2011







EDB Characterization



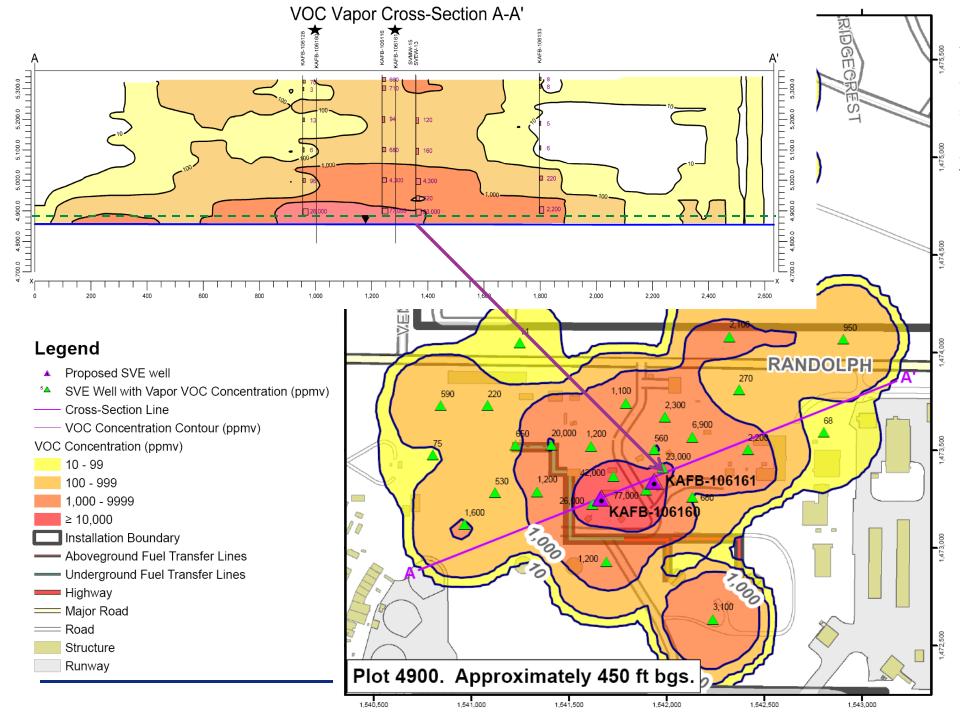
- Letter Addendum Work Plan will be submitted to NMED detailing the three additional well locations
- Held Tiger Team meeting to discuss
- NMED requested additional information prior to commenting on plan



Phase II Interim Measure



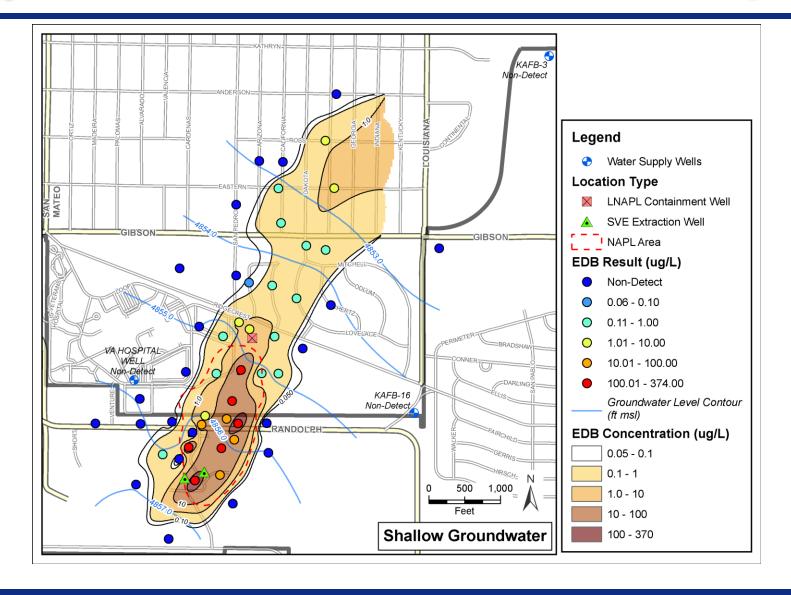
- Installed two SVE wells to address vadose zone source area
- Working with treatment system manufacturers to complete system design
- Successfully used a fast-track approach using letter work plan addendums to previously approved work plans
- Will continue collecting and evaluating data to determine need/location of additional SVE systems
- Iterative approach





Phase II Interim Measure







Path Forward



CHARACTERIZATION

RCRA Facility Investigation

- **✓** Installation of 78 Groundwater Wells
- Installation of 35 Soil Vapor Wells
- DPT Soil Samples at FFOR
- Installation of 9 Pneulog Wells
- Additional Groundwater Wells for EDB

EVALUATION

Corrective Measures Evaluations

- ✓ Baildown Testing
- ROI Testing
- Quarterly Monitoring
- Pneulog Well Testing
- Slug Testing
- Use Phase II IM to Conduct Extended ROI Testing
- Continue to Evaluate Early Treatment



- ICE Unit Operation Pre-Remedy O&M
- LNAPL Containment
- · Soil Removal at FFOR Phase I Interim Measures
- SVE Treatment System Phase II Interim Measures
- Move ICE Units to New SVE Wells
- Continue Design of Centralized SVE Treatment System

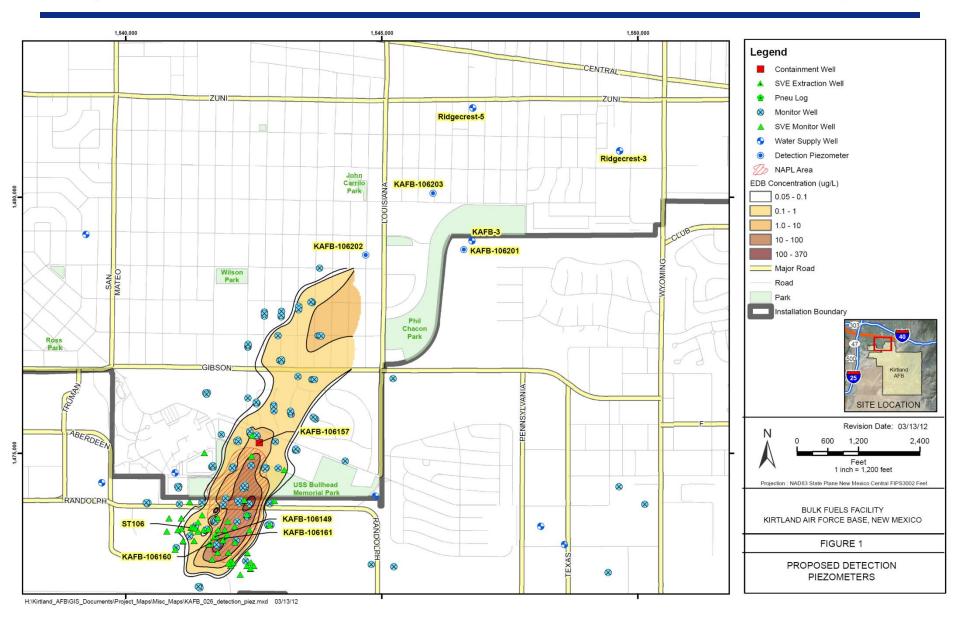






Path Forward







POINTS OF CONTACT



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Col. Donald Conley

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Citizens may review Air Force Environmental Restoration Program (ERP) documents at the Kirtland AFB Information Repository (IR) located at the Central New Mexico (CNM) Community College-Montoya Campus Library, 4700 Morris NE, (505) 224-5721

or

by visiting the Kirtland AFB website at http://www.kirtland.af.mil in the Environmental Issues section for Public Records.





Questions?